

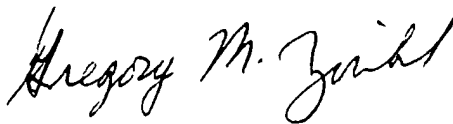
of the following: CSA, ATV, SAG, STNK (SEQ ID NO: 22), STPA (SEQ ID NO: 23), SGND (SEQ ID NO: 24), SNDEQK (SEQ ID NO: 25), NDEQHK (SEQ ID NO: 26), NEQHRK (SEQ ID NO: 27), VLIM (SEQ ID NO: 28), HFY, wherein the letters within each group represent the single letter amino acid code.

REMARKS

The amended paragraphs are presented to indicate the SEQ ID NOs of the various sequences which were not indicated in the application as filed or the substitute specification filed November 7, 2001. No new matter has been added.

A marked-up version of the amended sections are attached (Appendix A).

Respectfully submitted,



Gregory M. Zinkl, Ph.D.
Reg. No. 48,492

SONNENSCHN NATH & ROSENTHAL
P.O. Box #061080
Wacker Drive Station
Sears Tower
Chicago, Illinois 60606-1080

Direct telephone calls to: (312) 876-8936

14228391

APPENDIX A

page 6, lines 17-18:

FIG. 5. Alignment of SPkinasein_HSDA59H18 (SEQ ID NO:6) and 80432911 (SEQ ID NO:29).

Page 18, lines 21-32:

The relatedness of amino acid families may also be determined based on side chain interactions. Substituted amino acids may be fully conserved “strong” residues or fully conserved “weak” residues. The “strong” group of conserved amino acid residues may be any one of the following groups: STA, NEQK (SEQ ID NO: 16), NHQK (SEQ ID NO: 17), NDEQ (SEQ ID NO: 18), QHRK (SEQ ID NO: 19), MILV (SEQ ID NO: 20), MILF (SEQ ID NO: 21), HY, FYW, wherein the single letter amino acid codes are grouped by those amino acids that may be substituted for each other. Likewise, the “weak” group of conserved residues may be any one of the following: CSA, ATV, SAG, STNK (SEQ ID NO: 22), STPA (SEQ ID NO: 23), SGND (SEQ ID NO: 24), SNDEQK (SEQ ID NO: 25), NDEQHK (SEQ ID NO: 26), NEQHRK (SEQ ID NO: 27), VLIM (SEQ ID NO: 28), HFY, wherein the letters within each group represent the single letter amino acid code.